

E. Kommerer

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/954,954A

1646

Paper No. 8

DATE: 03/11/1999  
TIME: 11:17:34

INPUT SET: S30993.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information  
4  
5 (i) APPLICANT: Summers, Neena  
6 McWherter, Charles  
7 Feng, Yiqing  
8  
9 (ii) TITLE OF THE INVENTION: Novel Erythropoietin Receptor  
10 Agonists  
11  
12 (iii) NUMBER OF SEQUENCES: 135  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: G. D. Searle & Co.  
16 (B) STREET: P.O. Box 5110  
17 (C) CITY: Chicago  
18 (D) STATE: IL  
19 (E) COUNTRY: U. S. A.  
20 (F) ZIP: 60680  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Diskette  
24 (B) COMPUTER: IBM Compatible  
25 (C) OPERATING SYSTEM: DOS  
26 (D) SOFTWARE: FastSEQ for Windows Version 2.0  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: 08/954,954  
30 (B) FILING DATE: 21-OCT-1997  
31 (C) CLASSIFICATION:  
32  
33 (vii) PRIOR APPLICATION DATA:  
34 (A) APPLICATION NUMBER: 60/034,044  
35 (B) FILING DATE: 25-OCT-1996  
36  
37  
38 (viii) ATTORNEY/AGENT INFORMATION:  
39 (A) NAME: Bennett, Dennis A  
40 (B) REGISTRATION NUMBER: 34,547  
41 (C) REFERENCE/DOCKET NUMBER: 2991/1  
42  
43  
44 (ix) TELECOMMUNICATION INFORMATION:  
45 (A) TELEPHONE: 314-737-6986  
46 (B) TELEFAX: 314-737-6972

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/954,954A

DATE: 03/11/1999  
TIME: 11:17:34

INPUT SET: S30993.raw

47 (C) TELEX:

48

49

50 (2) INFORMATION FOR SEQ ID NO:1:

51

52 (i) SEQUENCE CHARACTERISTICS:

53 (A) LENGTH: 170 amino acids

54 (B) TYPE: amino acid

55 (C) STRANDEDNESS: single

56 (D) TOPOLOGY: linear

57

58 (ii) MOLECULE TYPE: None

59

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

61

62 Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile

63 1 5 10 15

64 Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu

65 20 25 30

66 Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser

67 35 40 45

68 Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro

69 50 55 60

70 Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg

71 65 70 75 80

72 Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile

73 85 90 95

74 Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala

75 100 105 110

76 Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly

77 115 120 125

78 Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly

79 130 135 140

80 Gly Gly Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu

81 145 150 155 160

82 Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu

83 165 170

84

85 (2) INFORMATION FOR SEQ ID NO:2:

86

87 (i) SEQUENCE CHARACTERISTICS:

88 (A) LENGTH: 170 amino acids

89 (B) TYPE: amino acid

90 (C) STRANDEDNESS: single

91 (D) TOPOLOGY: linear

92

93 (ii) MOLECULE TYPE: None

94

95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

96

97 Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr

98 1 5 10 15

99 Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/954,954A

DATE: 03/11/1999  
TIME: 11:17:35

INPUT SET: S30993.raw

```

100          20          25          30
101 Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu
102          35          40          45
103 Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp
104          50          55          60
105 Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser
106          65          70          75          80
107 Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser
108          85          90          95
109 Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp
110          100         105         110
111 Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys
112          115         120         125
113 Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly
114          130         135         140
115 Gly Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg
116          145         150         155         160
117 Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn
118          165         170
119

```

## (2) INFORMATION FOR SEQ ID NO:3:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

### (ii) MOLECULE TYPE: None

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```

132 Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val
133   1          5          10          15
134 Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly
135          20          25          30
136 Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala
137          35          40          45
138 Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu
139          50          55          60
140 Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu
141          65          70          75          80
142 Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro
143          85          90          95
144 Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr
145          100         105         110
146 Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu
147          115         120         125
148 Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Gly
149          130         135         140
150 Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr
151          145         150         155         160
152 Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile

```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/954,954A

DATE: 03/11/1999  
TIME: 11:17:35

INPUT SET: S30993.raw

```

153
154
155          (2) INFORMATION FOR SEQ ID NO:4:
156
157      (i) SEQUENCE CHARACTERISTICS:
158          (A) LENGTH: 170 amino acids
159          (B) TYPE: amino acid
160          (C) STRANDEDNESS: single
161          (D) TOPOLOGY: linear
162
163      (ii) MOLECULE TYPE: None
164
165      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
166
167      Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro
168          1             5             10             15
169      Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln
170          20             25             30
171      Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val
172          35             40             45
173      Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro
174          50             55             60
175      Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr
176          65             70             75             80
177      Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro
178          85             90             95
179      Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe
180          100            105            110
181      Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys
182          115            120            125
183      Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Gly Ser
184          130            135            140
185      Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
186          145            150            155            160
187      Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr
188          165            170
189

```

```

190          (2) INFORMATION FOR SEQ ID NO:5:
191
192      (i) SEQUENCE CHARACTERISTICS:
193          (A) LENGTH: 170 amino acids
194          (B) TYPE: amino acid
195          (C) STRANDEDNESS: single
196          (D) TOPOLOGY: linear
197
198      (ii) MOLECULE TYPE: None
199
200      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
201
202      Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp
203          1             5             10             15
204      Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln
205          20             25             30

```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/954,954A

DATE: 03/11/1999  
TIME: 11:17:36

INPUT SET: S30993.raw

```

206  Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu
207          35          40          45
208  Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu
209          50          55          60
210  Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr
211          65          70          75          80
212  Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp
213          85          90          95
214  Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg
215          100         105         110
216  Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu
217          115         120         125
218  Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Ser Ala
219          130         135         140
220  Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu
221          145         150         155         160
222  Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr
223          165         170
224

```

## (2) INFORMATION FOR SEQ ID NO:6:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

### (ii) MOLECULE TYPE: None

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

```

236
237  Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr
238      1          5          10          15
239  Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala
240          20          25          30
241  Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg
242          35          40          45
243  Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln
244          50          55          60
245  Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu
246          65          70          75          80
247  Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala
248          85          90          95
249  Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys
250          100         105         110
251  Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr
252          115         120         125
253  Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Gly Ser Ala Pro
254          130         135         140
255  Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu
256          145         150         155         160
257  Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly
258          165         170

```

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/954,954A**

DATE: 03/11/1999  
TIME: 11:17:36

*INPUT SET: S30993.raw*

Line

Error

Original Text